RSTS/E

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THE SOFTWARE DISPATCH

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RSTS/E SOFTWARE DISPATCH

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The RSTS/E Software Dispatch complements the **Software Dispatch Review for RSTS/E V6C-03.** It publishes new and revised Software Product Descriptions, programming notes, software problems and solutions, and documentation corrections. Much of the material is developed from answers to customer Software Performance Reports (SPRs) significant to the general audience, and is printed here to establish a reference notebook for the customer's software interests.

PRODUCTS SUPPORTED in the RSTS/E SOFTWARE DISPATCH

APL-11 V1
ASSIST-11 V1
BASIC-PLUS-2 V1
BASIC-PLUS-2/RMS-11K V1
COBOL-11 V3
CTS11/RSTS/E V1.1
CTS-500 V3
CTS-500-2780 V3
DATATRIEVE-11 V1
DECAL V2
DECnet/E V1
DIBOL-11/DECFORM V1, V4
DMS-500 V2
FORTRAN IV/RSTS-E V2
WISE V1
PLOT11-RSTS/E V1.1
RMS-11K V1.5
RPG II V8.02
RSTS/E V6C
RSTS-E/2780 V3
SORT-11 V2
VT55 BASIC-PLUS-2 V1

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Eleanor F.Hunter, Editor
Roxanne Alexander, Associate Editor

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USER LETTER

Jan Fair, SPR Administration

Customers (and others) have brought to our attention the need for additional information regarding SPR service, particularly as it involves SPR Administration. The following represents our attempt to fulfill this need. Your comments and suggestions are most welcome.

HOW TO MAKE THE BEST USE OF SPR FORM

What WE Can Do for YOU

1. Blank SPR forms are available upon request in the desired quantities through SPR Administration (P.O.Box F) and your local office/SPR Center.

2. Copies of the SPR acknowledgment and answer are sent to the appropriate DIGITAL Office/SPR Center for their information.

3. SPRs marked *SOFTWARE ERROR or INQUIRY* will have a response for supported Category A and B products. These SPRs should refer to suspected deficiencies in the software.

4. SPRs marked *FYI or SUGGESTION* are forwarded to the pertinent software group for information purposes, and are responded to at their discretion.

5. SPRs marked *DOCUMENTATION ERROR* should report those problems dealing with software manuals or newsletters, and will be forwarded to the pertinent software group.

What YOU Can Do For US

1. Customer Name and Address and Problem Statement should always be typed or printed clearly.

2. SPRs should not be used for problems concerning software policy, software distribution, or hardware. Your local office should be contacted in these cases.

3. It would be most helpful to all concerned, if problems with patches are reported as soon as possible.

4. For security SPRs, it is imperative that the *DO NOT PUBLISH box* be marked.

5. It would be helpful if tapes submitted with SPRs are labeled (track and density), and have a directory attached.

6. Should you ever receive an unacceptable SPR response, please contact us or the appropriate SPR Center so that the response may be readdressed.

7.2 Commonly Used System Programs (CUSPs) Patch Levels

This report reflects the current Version/Edit level of all of the Commonly Used System Programs (CUSPs) supplied as part of the standard RSTS/E V06C-03 System Library Programs release.

System Utilities Package

BUILD	V06C-03	DIRECT	V06C-03ABCD	DISPLY	V06C-03AB	VT05	V06C-03
VT50	V06C-03	DSKINT	V06C-03	GRIPE	V06C-03	INIT	V06C-03A
INUSE	V06C-03	LOGIN	V06C-03	LOGOUT	V06C-03A	MONEY	V06C-03
ODT	V06C-03A	PLEASE	V06C-03	PRIOR	V06C-03	QUOLST	V06C-03
REACT	V06C-03	REORDR	V06C-03A	SHUTUP	V06C-03	SWITCH	V06C-03
SYSCAT	V06C-03	SYSTAT	V06C-03AB	TALK	V06C-03	TTYSET	V06C-03
UMOUNT	V06C-03ABC	UTILTY	V06C-03	UTILT1	V06C-03AB		

Data Manipulation Package

BPCREF	V06C-03A	BPCRF1	V06C-03	COPY	V06C-03	EDIT	V06C-03AB
EDITCH	V06C-03A	FILCOM	V06C-03A	FLINT	V06C-03ABC	FLX	V06C-03A
MAKRTS	V06C-03	PIPSML	V06C-03	PIPEXT	V06C-03AB	PMDUMP	V06C-03A
RUNOFF	V06C-03AB						

Error Control Package

ANALY1	V06C-03	ANALYS	V06C-03	ERRBLD	V06C-03	ERRCPY	V06C-03
ERRDET	V06C-03A	ERRDIS	V06C-03	ERRINT	V06C-03		

Backup Package

BACCOM	V06C-03AB	BACCON	V06C-03AB	BACDEL	V06C-03	BACDIR	V06C-03AB
BACDMP	V06C-03	BACDSK	V06C-03A	BACENT	V06C-03A	BACFRM	V06C-03ABCDEF
BACLAB	V06C-03	BACLOD	V06C-03A	BACLST	V06C-03	BACMNT	V06C-03ABCDEF
BACPRM	V06C-03	BACKTO	V06C-03AB	BACKUP	V06C-03ABCD		

Spooling and Operator Services Package

OPSER	V06C-03	OPSRUN	V06C-03AB				
QUE	V06C-03ABCDEFG	QUEMAN	V06C-03	QUMRUN	V06C-03AB		
CHARS	V06C-03	SPOOL	V06C-03	SPLIDL	V06C-03	SPLRUN	V06C-03A
BATDCD	V06C-03	BATCH	V06C-03	BATIDL	V06C-03A		
BATDEC	V06C-03ABCDEFG	BATRUN	V06C-03ABCD				

User Environment Test Package

UETP	V06C-03A	ACCTST	V06C-03A	AC0TST	V06C-03A	AC1TST	V06C-03A
AC2TST	V06C-03A	AC3TST	V06C-03A	AC4TST	V06C-03A	AC5TST	V06C-03A
DBEXER	V06C-03	DPEXER	V06C-03	DREXER	V06C-03	DMEXER	V06C-03
DSEXER	V06C-03	DFEXER	V06C-03	DKEXER	V06C-03	DXEXER	V06C-03
MTEXER	V06C-03	DTEXER	V06C-03	CPEXER	V06C-03	CREXER	V06C-03
PPEXER	V06C-03	PREXER	V06C-03	KBEXER	V06C-03	LPEXER	V06C-03
SCRIPT	V06C-03	SCRPTB	V06C-03	CVTSCP	V06C-03	OPTPRM	V06C-03
OPTPRK	V06C-03	OPTPRB	V06C-03	TDLSRT	V06C-03	TDLXQK	V06C-03
TDLMQK	V06C-03	TDLOQK	V06C-03	TDLSQK	V06C-03A	CRFILE	V06C-03A
TAPSRT	V06C-03	TAPSRU	V06C-03	DECMRG	V06C-03A	VERIFY	V06C-03
RANMAK	V06C-03	JSTATS	V06C-03	DSTATS	V06C-03	CPUTST	V06C-03
FILMIN	V06C-03	CRUDAT	V06C-03	FLOPPY	V06C-03A	CRDATA	V06C-03A
BUILDR	V06C-03A	PKBSNE	V06C-03				

Automated Patching Facility Package

AUTOED	V06C-03	CPATCH	V06C-03	PATCPY	V06C-03	PBUILD	V06C-03ABC

DECnet/E Utilities

NCROOT	V06C-03A	NETFNC	V06C-03	NCP	V06C-03A	NCU	V06C-03AB
NIP	V06C-03	LSN	V06C-03	TLK	V06C-03A		

RSTS/E V06C-03
RSTS/E Executive
Device Driver Patches

********** Supersedes Article September, 1978 **********

NOTE
The previous version of this patch could not be installed with ONLPAT if the monitor SIL being patched was the currently-installed SIL.

NON-FILE STRUCTURED MAGTAPE OPENS - MANDATORY DEVICE DRIVER PATCH

PROBLEM:

After a non-file structured magtape open, the BASIC-PLUS "STATUS" variable should indicate non-file structured with a value of +256. The magtape open code fails to return this non-file structured condition.

SOLUTION:

This patch fixes the magtape open so it will return the correct value.

PROCEDURE:

1. This is a required patch to the RSTS/E V06C-03 and V06C-04 executive. It must be installed in all target monitor SILs.

2. The patch described in Step 4 below can be installed using the PATCH option after bootstrapping your system disk:

   ```
   Option: PATCH
   File to patch? <lf>          (LINE FEED for installed monitor SIL)
   ```

3. This patch can be installed manually using ONLPAT, the on-line patching program:

   ```
   RUN $ONLPAT
   Command File Name? <cr>      (RETURN for manual patch installation)
   File to patch? <lf>          (LINE FEED for installed monitor SIL)
   File found in account [0,1]
   ```

   For automated patching, the patch is contained in a command file ($MONITR.CMD) appearing in patch kit version "D" or later.

4. The patch is as follows:

```
Module name? OVR
Base address? MTU1ST
Offset address? 550
 Base   Offset  Old     New?
045000  000550  010561  ? 4767
045000  000552  000020  ? 204
045000  000554  106311  ? ^Z            (CTRL/Z for new offset)
Offset address? 760
 Base   Offset  Old     New?
045000  000760  000000  ? 105764
045000  000762  000000  ? 12
045000  000764  000000  ? 100402
045000  000766  000000  ? 52705
045000  000770  000000  ? 400
045000  000772  000000  ? 10561
045000  000774  000000  ? 20
045000  000776  000000  ? 207
045000  001000  112700  ? ^C          (CTRL/C to exit;up-arrow/C for ONLPAT)
```

5. The patch will take effect the next time the monitor is started.

RSTS/E VØ6C-Ø3
Data Manipulation Package
EDIT

EDIT LOOPS ON ERROR - MANDATORY EDIT PATCH

PROBLEM:

An "I/O to detached keyboard" error may cause EDIT to go into an infinite loop.

SOLUTION:

The patching procedure detailed below will prevent the looping condition described above.

PROCEDURE:

1. For purposes of the discussion, we will assume that the required program to be patched is located on the public disk structure. In the patching procedure, we will refer to the program by its most simple name format: <program name>.BAS. The person performing the patching operation should, if necessary, replace all program references with suitable text according to the requirements of the installation.

   Also, for purposes of presenting the patching procedure, we assume that the patching operation will be performed in a privileged account.

2. The command file for this patch appears in patch kit version "E" or later. If you do not have this distribution you can produce a command file by specifying a file for [logfile=] in the procedure below.

   To apply the patch manually, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>

File to patch - EDIT.BAS=EDIT.BAS<cr>
#[logfile=]<cr>
*H/6!/V<cr>
6!              EDIT            : Ø3A
*G/Ø3A/I/B/V<cr>
6!              EDIT            : Ø3AB
*H/7!/V<cr>
7!              EDIT DATE       : 12-APR-78
*G/12-APR-78/-9C/Ø3-NOV-78/V<cr>
7!              EDIT DATE       : Ø3-NOV-78
```

```
*H/16/G/REASON/V<cr>
  !     VER/ED          EDIT DATE       REASON
*I<cr>
<If>
  !<tab>6C-03AB<tab><tab>03-NOV-78<tab>PREVENT INFINITE LOOP ON ERROR.<esc>*V<cr>
  !     6C-03AB         03-NOV-78       PREVENT INFINITE LOOP ON ERROR.
*H/9220<tab>/G/"ERROR"/V<cr>
9220    PRINT "ERROR"
*I<cr>
<If>
<tab>\ GOTO 32767 IF ERL=100%<esc>*V<cr>
       \ GOTO 32767 IF ERL=100%
*EX<cr>
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready
```

3. To re-compile the program and re-enter it into the system library, type the following RSTS/E commands.

```
OLD EDIT<cr>

Ready

COMPILE $EDIT<40><cr>

Ready
```

4. The person making the changes to the program should now take whatever steps are necessary, according to installation guidelines, to save the new version of the program.

5. The source (.BAS) version of the program should now be removed from the public structure by using either the UNSAVE or the KILL commands of RSTS/E.

RSTS/E VØ6C-Ø3
Backup Package
BACFRM

BACFRM EXCEEDS MAXIMUM MEMORY - MANDATORY BACFRM PATCH

PROBLEM:

When responding to STATUS interrupt commands, BACFRM may exceed maximum memory.

SOLUTION:

The patching procedure detailed below will eliminate unnecessary code from the program to correct the above problem and provide space for future patches.

PROCEDURE:

1. For purposes of the discussion, we will assume that the required program to be patched is located on the public disk structure. In the patching procedure, we will refer to the program by its most simple name format: <program name>.BAS. The person performing the patching operation should, if necessary, replace all program references with suitable text according to the requirements of the installation.

   Also, for purposes of presenting the patching procedure, we assume that the patching operation will be performed in a privileged account.

2. The command file for this patch appears in patch kit version "E" or later. If you do not have this distribution you can produce a command file by specifying a file for [logfile=] in the procedure below.

   To apply the patch manually, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>

File to patch - BACFRM.BAS=BACFRM.BAS<cr>
#[logfile=]<cr>
*H/6!/V<cr>
6!              EDIT            : Ø3ABCDE
*G/Ø3ABCDE/I/F/V<cr>
6!              EDIT            : Ø3ABCDEF
*H/7!/V<cr>
7!              EDIT DATE       : Ø4-SEP-78
*G/Ø4-SEP-78/-9C/3Ø-OCT-78/V<cr>
7!              EDIT DATE       : 3Ø-OCT-78
```

```
*H/20/G/REASON/V<cr>
  !     VER/ED          EDIT DATE       REASON
*I<cr>
<lf>
  !<tab>6C-03ABCDEF<tab>30-OCT-78<tab>AVOID EXCEEDING MAXIMUM MEMORY.<esc>*V<cr>
  !     6C-03ABCDEF     30-OCT-78       AVOID EXCEEDING MAXIMUM MEMORY.
*H/916<tab>/V<cr>
916     DIM D6$(8%)     ! THIS IS THE DATA FIELD ARRAY.
*KH/952<tab>/V<cr>
952     DIM Z1%(30%)            ! USED BY FNP%() FOR TEMPORARY STORAGE
*2KH/1010<tab>/V<cr>
1010    I$="BACFRM      V06C-03ABCDE"
*G/03ABCDE/I/F/V<cr>
1010    I$="BACFRM      V06C-03ABCDEF"
*H/1110<tab>/V<cr>
1110    C%(1%)=Z0%(0%,27%)
*G/D6$(/0AV<cr>
        \ FIELD #6%, 512% AS D6$(1%),512% AS D6$(2%),512% AS D6$(3%),
*3KV<cr>
                ! FIND THE BACKUP VOLUME RECORD.
*EX<cr>
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready
```

3. To re-compile the program and re-enter it into the system library, type the following RSTS/E commands.

```
OLD BACFRM<cr>

Ready

COMPILE $BACFRM<cr>

Ready

RUN $PIP<cr>
*=$BACFRM.BAC<232>/RE<cr>
*^Z

Ready
```

4. The person making the changes to the program should now take whatever steps are necessary, according to installation guidelines, to save the new version of the program.

5. The source (.BAS) version of the program should now be removed from the public structure by using either the UNSAVE or the KILL commands of RSTS/E.

RSTS/E VØ6C-Ø3
Backup Package
BACMNT

Seq 13.13.6 M

PROBLEMS IN THE HANDLING OF INTEGER ERRORS - MANDATORY BACMNT PATCH

PROBLEM:

The BACMNT program does not correctly recover when an integer greater than 32767 is input as part of a user-specified date or tape density. Subsequent valid date or density entries may also be rejected.

SOLUTION:

The patching procedure detailed below causes BACKMNT to correctly trap the above mentioned error.

PROCEDURE:

1. For purposes of the discussion, we will assume that the required program to be patched is located on the public disk structure. In the patching procedure, we will refer to the program by its most simple name format: <program name>.BAS. The person performing the patching operation should, if necessary, replace all program references with suitable text according to the requirements of the installation.

   Also, for purposes of presenting the patching procedure, we assume that the patching operation will be performed in a privileged account.

2. The command file for this patch appears in patch kit version "E" or later. If you do not have this distribution you can produce a command file by specifying a file for [logfile=] in the procedure below.

   To apply the patch manually, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>

File to patch - BACMNT.BAS=BACMNT.BAS<cr>
#[logfile=]<cr>
*H/EDIT/V<cr>
 !                EDIT            : Ø3ABCDE
*G/Ø3ABCDE/I/F/V<cr>
 !                EDIT            : Ø3ABCDEF
*AV<cr>
 !                EDIT DATE       : 11-APR-78
*G/11-APR-78/-9C/Ø3-NOV-78/V<cr>
 !                EDIT DATE       : Ø3-NOV-78
```

RSTS/E V06C-03 Seq 13.13.6 M
Backup Package
BACMNT

```
*H/20/G/REASON/V<cr>
!       VER/ED          EDIT DATE       REASON
*I<cr>
<lf>
!<tab>6C-03ABCDEF<tab>03-NOV-78<tab>FIX ERROR TRAPPING OF FNN%<esc>*V<cr>
!       6C-03ABCDEF     03-NOV-78       FIX ERROR TRAPPING OF FNN%
*H/15110<tab>/G/15140/V<cr>
15110   ON ERROR GOTO 15140
*-2C/60/V<cr>
15110   ON ERROR GOTO 15160
*H/15140<tab>/0JV<cr>
15140   RESUME 15150
*3KV<cr>
15150   ON ERROR GOTO 19000
*A2KV<cr>
        \ FNEND
*2AKV<cr>
                ! RETURN.
*AI<cr>
<cr>
15160<tab>E%=512%+52%<lf>
<tab>\ FNN%=0%<lf>
<tab>\ RESUME 15150<lf>
<tab><tab>! FLAG THE ERROR.<lf>
<tab><tab>! GO RETURN.<lf>
<cr>
<esc>*V<cr>

*EX<cr>
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready
```

3. To re-compile the program and re-enter it into the system library, type the following RSTS/E commands.

```
OLD BACMNT<cr>

Ready

COMPILE $BACMNT<cr>

Ready

RUN $PIP<cr>
*=$BACMNT.BAC<232>/RE<cr>
*^Z

Ready
```

4. The person making the changes to the program should now take whatever steps are necessary, according to installation guidelines, to save the new version of the program.

5. The source (.BAS) version of the program should now be removed from the public structure by using either the UNSAVE or the KILL commands of RSTS/E.

RSTS/E VØ6C-Ø3
Backup Package
BACKUP

Seq 13.16.4 M

PROBLEMS IN HANDLING INTEGER ERRORS - MANDATORY BACKUP PATCH

PROBLEM:

The BACKUP program does not correctly recover when an integer greater than 32767 is input as part of a user-specified date. Subsequent valid date entries may also be rejected.

SOLUTION:

The patching procedure detailed below causes BACKUP to correctly trap the above mentioned error.

PROCEDURE:

1. For purposes of the discussion, we will assume that the required program to be patched is located on the public disk structure. In the patching procedure, we will refer to the program by its most simple name format: <program name>.BAS. The person performing the patching operation should, if necessary, replace all program references with suitable text according to the requirements of the installation.

   Also, for purposes of presenting the patching procedure, we assume that the patching operation will be performed in a privileged account.

2. The command file for this patch appears in patch kit version "E" or later. If you do not have this distribution you can produce a command file by specifying a file for [logfile=] in the procedure below.

   To apply the patch manually, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>

File to patch - BACKUP.BAS=BACKUP.BAS<cr>
#[logfile=]<cr>
*H/2!/V<cr>
2!              PROGRAM         : BACKUP.BAS
*H/6!/V<cr>
6!              EDIT            : Ø3ABC
*G/Ø3ABC/I/D/V<cr>
6!              EDIT            : Ø3ABCD
*H/7!/V<cr>
7!              EDIT DATE       : 26-JUN-78
*G/26-JUN-78/-9C/Ø3-NOV-78/V<cr>
7!              EDIT DATE       : Ø3-NOV-78
```

RSTS/E V06C-03
Backup Package
BACKUP

Seq 13.16.4 M
Page 2 of 3

```
*H/20/G/REASON/V<cr>
  !     VER/ED          EDIT DATE       REASON
*I<cr>
<lf>
  !<tab>6C-03ABCD<tab>03-NOV-78<tab>FIX ERROR TRAPPING OF FNN%<esc>*V<cr>
  !     6C-03ABCD       03-NOV-78       FIX ERROR TRAPPING OF FNN%
*H/15110<tab>/G/15140/V<cr>
15110   ON ERROR GOTO 15140
*-2C/60/V<cr>
15110   ON ERROR GOTO 15160
*H/15140<tab>/0JV<cr>
15140   RESUME 15150
*3KV<cr>
15150   ON ERROR GOTO 19000
*A2KV<cr>
        \ FNEND
*2AKV<cr>
                ! RETURN.
*AI<cr>
<cr>
15160<tab>E%=512%+52%<lf>
<tab>\ FNN%=0%<lf>
<tab>\ RESUME 15150<lf>
<tab><tab>! FLAG THE ERROR.<lf>
<tab><tab>! GO RETURN.<lf>
<cr>
<esc>*V<cr>

*EX<cr>
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready
```

3. To re-compile the program and re-enter it into the system library, type the following RSTS/E commands.

```
OLD BACKUP<cr>

Ready

COMPILE $BACKUP<cr>

Ready

RUN $PIP<cr>
*=$BACKUP.BAC<232>/RE<cr>
*^Z

Ready
```

4. The person making the changes to the program should now take whatever steps are necessary, according to installation guidelines, to save the new version of the program.

5. The source (.BAS) version of the program should now be removed from the public structure by using either the UNSAVE or the KILL commands of RSTS/E.

RSTS/E VØ6C-Ø3
Spooling and Operator Services Package
QUMRUN

RESTRICTING THE ASSIGNMENT OF BA: - OPTIONAL QUMRUN PATCH

PROBLEM:

Some installations may find it desirable to limit the number of BATCH streams which can be used for jobs that are queued to BA:.

SOLUTION:

The patching procedure detailed below will cause QUMRUN to avoid assigning jobs to BA6: and BA7: unless the user has specified BA6: or BA7:.

PROCEDURE:

1. For purposes of the discussion, we will assume that the required program to be patched is located on the public disk structure. In the patching procedure, we will refer to the program by its most simple name format: <program name>.BAS. The person performing the patching operation should, if necessary, replace all program references with suitable text according to the requirements of the installation.

   Also, for purposes of presenting the patching procedure, we assume that the patching operation will be performed in a privileged account.

2. To apply the patch, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>

File to patch - QUMRUN.BAS=QUMRUN.BAS<cr>
#[logfile=]<cr>
*H/15070<tab>/V<cr>
15070   DEF FNN%
*G/DFORMS2%/V<cr>
        \       DFORMS2%=(FNC%(LEFT(O$(Z3%,2%),2%),Z0%(Z7%,9%)) AND
*ØAI<cr>
<tab>\<tab>DFORMS1%=Ø% IF O$(Z3%,Ø%)="BA"<lf>
<tab><tab><tab>IF (Z0%(Z7%,1%) AND 255%)=255% IF O%(Z3%,1%)>5%<lf>
<esc>*V<cr>
        \       DFORMS2%=(FNC%(LEFT(O$(Z3%,2%),2%),Z0%(Z7%,9%)) AND
*EX<cr>
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready
```

3. To re-compile the program and re-enter it into the system library, type the following RSTS/E commands.

```
OLD QUMRUN<cr>

Ready

COMPILE $QUMRUN<cr>

Ready
```

4. The person making the changes to the program should now take whatever steps are necessary, according to installation guidelines, to save the new version of the program.

5. The source (.BAS) version of the program should now be removed from the public structure by using either the UNSAVE or the KILL commands of RSTS/E.

RSTS/E VØ6C-Ø3
Spooling and Operator Services Package
BATDEC

********** Susersedes Article August, 1978 **********

"$" AS A SPECIAL CHARACTER ONLY IF FIRST CHARACTER OF LINE - OPTIONAL BATDEC PATCH

PROBLEM:

When BATDEC scans for "$" to determine if a given line is a command line, it ignores tabs and spaces. It is thus impossible to have a data line which starts with the "$" character, even though it is preceded by any number of tabs and/or spaces. If BATDEC does find the "$" character and it is not the first character on the line, BATDEC is not able to determine what the command is and considers it a CCL command.

NOTE

This optional patch may prevent some BATCH jobs from executing which were successful previously, particularly those which use CCL commands which are indented with tab and/or space characters. This patch will be incorporated in a future release of RSTS/E. It is strongly suggested that this patch be installed and any problems with affected BATCH jobs be corrected.

SOLUTION:

The following patch will prevent BATDEC from scanning past the first character when it searches for "$".

PROCEDURE:

1. For purposes of the discussion, we will assume that the required program to be patched is located on the public disk structure. In the patching procedure, we will refer to the program by its most simple name format: <program name>.BAS. The person performing the patching operation should, if necessary, replace all program references with suitable text according to the requirements of the installation.

   Also, for purposes of presenting the patching procedure, we assume that the patching operation will be performed in a privileged account.

2. To apply the patch, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>

File to patch - BATDEC.BAS=BATDEC.BAS<cr>
#[logfile=]<cr>
```

```
*H/11520<tab>/V<cr>
11520   P%,LL%=0%
*G/FNR%/V<cr>
        \ LL%=FNR%("$",1%)
*0AKI<cr>
<tab>\ LL%=(ASCII(C$)=36%) AND 1%<lf>
<esc>*V<cr>
        \ Z%=ASCII(RIGHT(C$,LEN(C$)))
*G/GOTO 11570/V<cr>
        \ GOTO 11570 UNLESS LL%
*AI<cr>
<tab>\ P%=1%<lf>
<esc>*V<cr>
        \ C$=CVT$$(LEFT(C$,120%),4%)
*H/13080<tab>/V<cr>
13080   ON ERROR GOTO 13095
*G/FNR%/V<cr>
                \ L0%=-1% IF FNR%("$",1%)
*0AKI<cr>
<tab><tab>\ L0%=(ASCII(C$)=36%) AND 1%<lf>
<tab><tab>\ P%=1% IF L0%<lf>
<esc>*V<cr>
                \ PRINT #11%, "$6 "+Z0$(12%); IF L0%=0%
*EX<cr>
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready
```

3. To re-compile the program and re-enter it into the system library, type the following RSTS/E commands.

```
OLD BATDEC<cr>

Ready

COMPILE $BATDEC<cr>

Ready
```

4. The person making the changes to the program should now take whatever steps are necessary, according to installation guidelines, to save the new version of the program.

5. The source (.BAS) version of the program should now be removed from the public structure by using either the UNSAVE or the KILL commands of RSTS/E.

RMS-11/RMS-11K V1.5
for RSTS/E V6C
R3DLSI.OBJ

ALTERNATE INDEXES (SPR 11-2ØØØ1 RA)

ALTERNATE INDEXES CAN BE CORRUPTED WHEN MULTIPLE TASKS ACCESS THE FILE BY ALTERNATE KEY AND UPDATE RECORDS, CHANGING KEY VALUES

1. BUILD THE FOLLOWING CORRECTION FILE: R3DLSI.PAT

```
        .TITLE  R3DLSI
        .IDENT  /012CM1/
        .PSECT  R3DLSI
$$$=.
.=$$$+66
        BR      CKERR
.=$$$+126
CKERR:
.=$$$+156
        JSR     PC,XXX
        NOP
.=$$$+740
XXX:    BEQ     XXX1
        JSR     PC,$WATBD
        BR      XXX2
XXX1:   JSR     PC,$LSTAL
XXX2:   RTS     PC
        .END
```

2. EXTRACT THE ORIGINAL MODULE FROM RMSLIB.OLB

```
RUN $LBR.TSK
LBR>R3DLSI.OLD=LB:RMSLIB.OLB/EX:R3DLSI
LBR>^Z    (CTRL/Z TO EXIT)
```

3. ASSEMBLE THE CORRECTION FILE

```
RUN $MAC.TSK
MAC>R3DLSI.POB,R3DLSI/-SP=R3DLSI.PAT
MAC>^Z    (CTRL/Z TO EXIT)
```

4. RUN "PAT" UTILITY TO REBUILD CORRECTED OBJECT MODULE

```
RUN $PAT.TSK
PAT>R3DLSI.OBJ=R3DLSI.OLD/CS:132263,R3DLSI.POB/CS:015466
PAT>^Z    (CTRL/Z TO EXIT)
```

5. RE-INSERT MODULE INTO LIBRARY

```
RUN $LBR.TSK
LBR>LB:RMSLIB/RP=R3DLSI
LBR>^Z    (CTRL/Z TO EXIT)
```

6. RE-TASK-BUILD AND RUN.

RPG II V8.Ø2
for RSTS/E V6C
COMPILER

NUMBER OF DEVICE UNITS (SPR 11-2Ø543 YL)

COMPILER PATCH V8.Ø2B NUMBER OF DEVICE UNITS, SEQUENCE 32.2.2M SEPTEMBER 1978 WHEN USED CAUSES THE RPG COMPILER TO GET A UNIBUS TIME OUT ERROR WHENEVER RUN IN SOME RSTS/E V6C ENVIRONMENT.

IN SEPTEMBER 1978 ISSUE OF RSTS/E SOFTWARE DISPATCH IT NEGLECTED TO MENTION THAT RPG COMPILER PATCH V8.Ø2B IS A POSITION DEPENDENT PATCH. IF SOME SYSTEM ENVIRONMENT CHANGES CAUSES SYSTEM SUBROUTINE CBTA TO RELOCATE TO OTHER PLACES, THEN THE PATCH WILL NOT WORK. FOR EXAMPLE, INCREASING OR DECREASING THE SIZE OF RPG COMPILER WILL INVALIDATE THIS PATCH. THE FOLLOWING PATCHING PROCEDURE WILL CORRECT THIS PROBLEM.

PROCEDURE:

1. DISABLE OR REMOVE THE COMPILER PATCH V8.Ø2B FROM RPGCMP.CMD FILE.

2. CREATE THE FOLLOWING CORRECTION FILE AND NAME IT EXIT.CØ1

```
        .TITLE EXIT
        .IDENT /V8.Ø1/
.=.+412
        JSR PC,$CBDMG
        .END
```

3. ASSEMBLE THE CORRECTION FILE AS FOLLOWS:

```
RUN $MAC.TSK
MAC>EXIT.PØ1=EXIT.CØ1
MAC>^Z                  (CTRL/Z TO EXIT)
```

4. EXTRACT THE ORIGINAL MODULE FROM RPGCMP.OLB AS FOLLOWS:

```
RUN $LBR.TSK
LBR>EXIT.OLD=RPGCMP/EX:EXIT
LBR>^Z                  (CTRL/Z TO EXIT)
```

5. MERGE THE ORIGINAL MODULE WITH THE CORRECTION MODULE AS FOLLOWS:

```
RUN $PAT.TSK
PAT>EXIT.NEW=EXIT.OLD/CS:44Ø6Ø,EXIT.PØ1/CS:4673
PAT>^Z                  (CTRL/Z TO EXIT)
```

6. REPLACE THE MODULE IN RPGCMP.OLB BY THE PATCHED MODULE AS FOLLOWS:

```
RUN $LBR.TSK
LBR>RPGCMP/RP=EXIT.NEW
LBR>^Z                  (CTRL/Z TO EXIT)
```

7. REBUILD THE RPG COMPILER.

RPG II V8.Ø2
for RSTS/E V6C
RPGESP

Seq 32.8.1 M
1 of 1

RPGESP SPORADICALLY CONCATENATES STATEMENTS (GFT)

RPGESP sporadically concatenates statements.

To correct this, change the following lines in the RPGESP.B2S program:

```
1010    ID$='RPGESP V2-05[RSTS:BP2]'\ ONERROR GOTO 8000 &
        ! SET PROGRAM ID AND CENTRAL ERROR TRAP

5600    GOSUB 9400\ PRINT CR$+LF$+EOS$"[Closing File....]"\     &
        PRINT #K3%, NXT$ IF NXT$<>""\   &
        IF NEWFIL% THEN CLOSE K3%\ GOTO 5630    &
                ! WRITE OUT CURRENT PAGE; "[CLOSING FILE....]$" &
                ! WRITE OUT SAVED LINE IF ANY;  &
                ! IF NEWFILE, JUST CLOSE OUTPUT, ELSE:
```

NOW, COMPILE AND TASK BUILD RPGESP.

DIBOL-11/DECFORM V4D
for RSTS/E V6C
CTSPIP.BAS V04C/4D-16

INDIRECT COMMAND FILE SPECIFICATIONS - MANDATORY PATCH (C.C) - MANDATORY DOCUMENTATION CHANGE (H.U.)

PROBLEM:

1. CTSPIP does not recognize file extensions for Indirect command files.

2. The CTS-500 USER'S GUIDE does not mention the requirement of the /5 switch for indirect command file specifications.

SOLUTION:

The first problem is solved by a patch. The second problem is solved by the attached documentation change.

PATCH PROCEDURE:

To apply the patch manually, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>
File to patch - CTSPIP.BAS=CTSPIP.BAS
#[logfile=]<cr>
*G\VER/ED\<cr>
*G\4C/4D-16\<cr>
*G\.\<cr>
*V<cr>
<tab>!<tab><tab><tab><tab><tab>FOR RPR02'S.<tab><tab>       &<cr>
*AI<cr>
<tab>!<tab>4C/4D-17<tab>06-NOV-78<tab>RECOGNIZE INDIRECT COMMAND FILE&<cr>
<tab>!<tab><tab><tab><tab><tab>EXTENSIONS.&<cr>
<esc>*<cr>
*H\EDIT$ =\<cr>
*G\16\<cr>
*-2DI\17\V<cr>
<tab>\EDIT$ = '17'<tab><tab><tab><tab><tab><tab><tab>       &<cr>
*H\1110<tab>\<cr>
*G\DOT% OR\<cr>
*-2DI\AND\<cr>
*G\<>\<cr>
*-2DI\=\V<cr>
<tab>\DOT% = DOT% AND (MID(S1$, DOT% + 1%, 3%) = '???')<tab><tab>       &<cr>
*EX<cr>
```

```
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready

OLD CTSPIP

Ready

COMPILE $CTSPIP

Ready

RUN $PIP.SAV<cr>
*=$CTSPIP.BAC<232>/RE
*^Z

Ready
```

Save the command file off line and Delete it and the other files resulting from the patch procedure.

DOCUMENTATION CORRECTION:

CHANGE TO CTS-500 DIBOL USER'S GUIDE (AA-5205B-TC)

On page 9-12 of the manual in Section 9.3.9 "Running from Indirect Command Files", add the following information:

"The indirect command file must be a CTS-500 file." To reflect this change, alter the example on the left margin from:

```
@FILNAM/T
```

to:

```
@FILNAM/5/T
```

Also change the example on the last line of the page from:

```
@KB: <RETURN>
```

to:

```
@KB:/5 <RETURN>
```

DIBOL-11/DECFORM V4C
for RSTS/E V6C
CTSPIP.BAS V04C/4D-16

INDIRECT COMMAND FILE SPECIFICATIONS - MANDATORY PATCH (C.C) - MANDATORY DOCUMENTATION CHANGE (H.U.)

PROBLEM:

1. CTSPIP does not recognize file extensions for Indirect command files.

2. The CTS-500 USER'S GUIDE does not mention the requirement of the /5 switch for indirect command file specifications.

SOLUTION:

The first problem is solved by a patch. The second problem is solved by the attached documentation change.

PATCH PROCEDURE:

To apply the patch manually, perform the following RSTS/E system commands.

```
RUN $CPATCH<cr>
<CPATCH's header line>
File to patch - CTSPIP.BAS=CTSPIP.BAS
#[logfile=]<cr>
*G\VER/ED\<cr>
*G\4C/4D-16\<cr>
*G\.\<cr>
*V<cr>
<tab>!<tab><tab><tab><tab><tab>FOR RPR02'S.<tab><tab>       &<cr>
*AI<cr>
<tab>!<tab>4C/4D-17<tab>06-NOV-78<tab>RECOGNIZE INDIRECT COMMAND FILE&<cr>
<tab>!<tab><tab><tab><tab><tab>EXTENSIONS.&<cr>
<esc>*<cr>
*H\EDIT$ =\<cr>
*G\16\<cr>
*-2DI\17\V<cr>
<tab>\EDIT$ = '17'<tab><tab><tab><tab><tab><tab><tab>       &<cr>
*H\1110<tab>\<cr>
*G\DOT% OR\<cr>
*-2DI\AND\<cr>
*G\<>\<cr>
*-2DI\=\V<cr>
<tab>\DOT% = DOT% AND (MID(S1$, DOT% + 1%, 3%) = '???')<tab><tab>       &<cr>
*EX<cr>
```

```
Patch from KB:[P,PN]CPATCH.CMD complete
#^Z
File to patch - ^Z

Ready

OLD CTSPIP

Ready

COMPILE $CTSPIP

Ready

RUN $PIP.SAV<cr>
*=$CTSPIP.BAC<232>/RE
*^Z

Ready
```

Save the command file off line and Delete it and the other files resulting from the patch procedure.

DOCUMENTATION CORRECTION:

CHANGE TO CTS-500 DIBOL USER'S GUIDE (AA-5205B-TC)

On page 9-12 of the manual in Section 9.3.9 "Running from Indirect Command Files", add the following information:

"The indirect command file must be a CTS-500 file." To reflect this change, alter the example on the left margin from:

@FILNAM/T

to:

@FILNAM/5/T

Also change the example on the last line of the page from:

@KB: <RETURN>

to:

@KB:/5 <RETURN>

RSTS/E V6C
CUMULATIVE INDEX
JANUARY 1979

This is a complete listing of all articles for RSTS/E V6C and layered products. **Missing sequence numbers may pertain to problems unique to other versions of the same product or other major operating systems.**

IMPORTANT!

The following numerical system has been grouped in logical order denoted by the first digit (X.X.X). The second digit (X.X.X.) refers to the subcomponent and the third digit (X.X.X) denotes the issue number or sequential order.

Retracted articles are indicated: RETRACTION.

Flags are currently being installed for all articles. The flags and definitions are as follows.

M = Mandatory patch. These are critical patches which each customer is required to install.

O = Optional patch. These articles are applicable only if the reported problems have occurred at the customer site or if they are unique to his operation.

R = Restriction. These problems are not patchable in released software. Restrictions are reviewed and corrected when possible as part of the normal release cycle.

N = Note. This information may be helpful to the user.

* = Articles appeared in RSTS/E Release Notes, December 1977 (AA-5246B-TC).

+ = Articles appeared in RSTS/E Software Dispatch Review, January 1978 (AA-5514B-TC).

** = Articles appeared in CTS-500 DIBOL-11 Release Notes June 1978 (AA-55048-TC)

Component	Sequence	Mon/Yr
	RSTS/E V06C-03	
INITIALIZATION		
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MAIN MEMORY CACHE NOT PROPERLY DISABLED	1.1.1 M	Feb 78
DC11'S DON'T INTERRUPT	1.1.2 M	Mar 78
PDP-11/60 ERROR LOGGING INCOMPLETE	1.1.3 M	Apr 78
NOT ENOUGH ROOM IN COPY	1.1.4 M	Nov 78
PATTERN CHECKS FAIL ON DR DISKS	1.1.5 M	Nov 78
INIT.SYS PROGRAM NOTES		
CLEANING DISKS AFTER SYSTEM CRASHES	1.2.1 N*	Dec 77
ADDING BAD BLOCKS TO THE BAD BLOCK FILE	1.2.2 N*	Dec 77
DEVICES WITH NON-STANDARD UNIBUS ADDRESSES AND VECTORS	1.2.3 N*	Dec 77
SYSTEM GENERATION		
SYSGEN NOTES		
DETERMINING IF A GENERATED MONITOR CAN BE INSTALLED; ADJUSTING MONITOR SIZE	2.2.1 N	Jun 78
EXECUTIVE		
MONITOR PATCHES		
MAKING RECEIVER DECLARATION NON-PRIVILEGED	3.1.1 O*	Dec 77
FIRST FIT MEMORY ALLOCATION	3.1.2 O*	Dec 77
TEMPORARY I/O BUFFER ALLOCATION	3.1.3 M	May 78
TERMINALS IN CTRL/S STATE EXCEED TERMINAL BUFFER QUOTA	3.1.4 M	Aug 78
TERMINAL SERVICES PATCHES		
RESTRICTING TERMINAL MODES	3.3.1 O*	Dec 77
IMMEDIATE MODEM HANGUP	3.3.2 O*	Dec 77
CHANGING SPECIAL LOGIN TERMINAL	3.3.3 O*	Dec 77
CHANGING A TERMINAL'S INPUT BUFFER QUOTA	3.3.4 O*	Dec 77
INPUT ESCAPE SEQUENCE HANDLING	3.3.5 O*	Dec 77
RESTRICTING PSEUDO-KEYBOARD MODES	3.3.6 O*	Dec 77
CLOSING PSEUDO-KEYBOARD CRASHES SYSTEM	3.3.7 M	Apr 78
DISABLING A KEYBOARD CRASHES SYSTEM	3.3.8 M	Nov 78
DM11BB GENERATES SPURIOUS INTERRUPTS	3.3.9 M	Apr 78
TEMPORARY FLAGS NOT RESET WHEN DDB INITIALIZED	3.3.10 M	Sep 78

Component	Sequence	Mon/Yr
TERMINAL SERVICES NOTES		
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2741 TERMINAL INTERFACE WIRING	3.4.2 N*	Dec 77
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UNDERSTANDING '?I/O TO DETACHED KEYBOARD' ERRORS	3.4.4 N*	Dec 77
UNDERSTANDING TERMINAL PARITY AND STOP BIT SETTINGS	3.4.5 N*	Dec 77
MODEM CONTROL ON PRIVATE, LEASED LINES	3.4.6 N*	Dec 77
TTYSET AND TTY SYS CALL CHANGES	3.4.7 N	Sep 78
FILE PROCESSOR PATCHES		
AUXILIARY LIBRARY ACCOUNTS	3.5.1 O*	Dec 77
CHANGING DEFAULT PROTECTION CODE	3.5.2 O*	Dec 77
RESTRICTING DISK MODES	3.5.3 O*	Dec 77
MAKING FIP SYS CALLS PRIVILEGED	3.5.4 O*	Dec 77
NON-PRIVILEGED ACCESS TO NON-FILE STRUCTURED DISKS	3.5.5 O*	Dec 77
NON-PRIVILEGED WRITES TO NON-FILE STRUCTURED DISKS	3.5.6 O*	Dec 77
ALLOWING CROSS ACCOUNT CREATIONS	3.5.7 O*	Dec 77
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CR11 CARD READER NOTES	3.8.1 N*	Dec 77
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BASIC-PLUS PATCHES		
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NO IMMEDIATE MODE FROM .BAS FILE	4.1.5 O*	Dec 77
NO PPN'S IN CATALOG	4.1.6 O*	Dec 77
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STRING ARITHMETIC ROUNDING ERROR	4.1.9 M	Sep 78
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2780 DEVICE DRIVER		
2780 DEVICE DRIVER PATCHES		
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Component	Sequence	Mon/Yr
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CORRECT APPEARANCE OF "NSW" IN JOB STATUS	10.4.2 M	Dec 78
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INCLUSION OF COMMENTS IN COMMAND FILES	10.10.1 M	Jul 78
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UNSCRUPULOUS PROGRAMS MAY CHAIN TO LOGIN	10.12.1 O	Mar 78
MAKING LOGIN INVOKE AN ALTERNATE RUN-TIME SYSTEM	10.12.2 O	Mar 78
LOGIN CAN PRINT A MESSAGE FOR SPECIFIC ACCOUNTS	10.12.3 O	Apr 78
LOGIN CAN CHAIN TO A SPECIFIED PROGRAM	10.12.4 O	Apr 78
PROTECTING LOGIN FROM CONTROL/C	10.12.5 O	Jul 78
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PACKAGE NOTES		
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EDIT		
CORRECT PROBLEM WITH /B SWITCH ON A RUN ENTRY	11.3.1 M	Jun 78
EDIT LOOPS ON ERROR	11.3.2 M	Jan 79
EDITCH		
CHANGING THE EFFECT OF THE POSITION COMMAND	11.4.1 O*	Dec 77
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INCORRECT BLOCK COUNT IN /TORSTS TRANSFER	11.6.1 M	Apr 78
INVALID LABEL ID RESULTS IN ERRONEOUS MESSAGE	11.6.2 M	May 78
DATA SET NAME VARIABLE NOT CLEARED	11.6.3 M	Oct 78
PIPEXT		
PIPEXT FAILS ON TRANSFER FROM DOS DISK FILES	11.8.1 M	Jun 78
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Component	Sequence	Mon/Yr
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BPCREF KILLS ITSELF WHEN ATTACHED TO A KEYBOARD	11.10.1 M	Apr 78
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BACCON		
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BACDSK		
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BACFRM		
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BACKTO		
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QUE		
QUE WILL CRASH IF GIVEN AN ILLEGAL FORMNAME	14.4.1 M	Feb 78
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QUE DOES NOT CHECK PRIVILEGE PROPERLY	14.4.3 M	Apr 78
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QUMRUN SLEEPS FOR A FIXED AMOUNT OF TIME	14.6.2 M	Aug 78
"NEXT" AND NON-PRIVILEGED INTERRUPT COMMANDS	14.6.3 M	Aug 78
RESTRICTING THE ASSIGNMENT OF BA:	14.6.4 O	Jan 79
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ELIMINATING EXTRA FORM FEEDS ON SPECIAL FORMS	14.10.1 O*	Dec 77
SPLRUN IGNORES CONTROL-Z (END-OF-FILE) CHARACTER	14.10.2 M	Jun 78
BATIDL		
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BATCH JOB DOES NOT ALWAYS RETURN TO THE DEFAULT RTS	14.14.3 M	Mar 78
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BATRUN		
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UETP IGNORES RM03 DISKS WHEN CHECKING SYSTEM DISK CAPACITY	15.2.1 M	Jul 78
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ACCTST IGNORES RM03 DISKS WHEN CHECKING SYSTEM CAPACITY	15.3.1 M	Jul 78
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AC2TST FAILS TO EXERCISE RM03 DISKS	15.6.1 M	Jul 78

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AC3TST FAILS TO EXERCISE RM03 DISKS	15.7.1 M	Jul 78
AC4TST		
AC4TST FAILS TO EXERCISE RM03 DISKS	15.8.1 M	Jul 78
AC5TST		
AC5TST FAILS TO EXERCISE RM03 DISKS	15.9.1 M	Jul 78
TDLSQK		
TDLSQK FAILS IN UETP TEST	15.37.1 M	Feb 78
CRFILE		
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DECMRG		
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RSX.RTS		
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Component	Sequence	Mon/Yr
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KEYBOARD MONITOR DOES NOT DROP PRIVILEGES	21.3.8 M	Nov 78
TYPING CTRL/C MAY RESULT IN ENDLESS LOOP	21.3.9 M	Dec 78
SYSLIB.OLB		
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GLUN DIRECTIVE NOT CHECKING FOR UNASSIGNED LUNS	21.7.3 M	Jul 78
OVERLAID TASKS ABORT WHEN BUILT WITH UNITS=14	21.7.4 M	Aug 78
LOGICAL SUBSTITUTION FOR "OV" AND "CL" INCORRECT	21.7.5 M	Aug 78
.CSI2 FAILS WHEN SCANNING FILESPEC WITH NO FILENAME	21.7.6 M	Sep 78
EDT.TSK		
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HOOK.SAV FAILS TO WRITE RM03 BOOTSTRAP	22.5.1 M	Dec 78
LINK.SAV		
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PAT.SAV		
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PIP.SAV		
DISALLOW OUTPUT FILE SPECIFICATION ON /ZE SWITCH	22.13.1 M	May 78
TRANSFERRING FILES BETWEEN PUBLIC DISKS IN THE SAME ACCOUNT	22.13.2 N	Aug 78
/DELETE OPTION IS INCONSISTENT BETWEEN PIP.SAV AND PIPEXT	22.13.3 O	Sep 78
ACCOUNTING STATISTICS NOT RESET ON FILE MERGE OPERATIONS	22.13.4 M	Nov 78
"?CAN'T FIND FILE" ERROR DURING WILD CARD TRANSFERS	22.13.5 R	Sep 78
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COMPILER		
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DMSUTL		
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DMSUTL DOES NOT HANDLE SYSTEM LOGICAL NAME	24.2.2 R	Jul 78
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DMSFSS		
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DMSISR		
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DMSRAR		
BLOCKS GET PERMANENTLY LOCKED IN UPDATE MODE	24.6.1 M+	Jan 78
DMSISA		
BLOCKS GET PERMANENTLY LOCKED IN UPDATE MODE	24.7.1 M+	Jan 78
BASIC-PLUS SOURCE FILE CORRECTIONS	24.7.2 M	May 78
DMSRAA		
BLOCKS GET PERMANENTLY LOCKED IN UPDATE MODE	24.8.1 M+	Jan 78
DMSISO		
FILES ALLOCATED MORE THAN 32767 BLOCKS ARE LOADED INCORRECTLY	24.10.1 M+	Jan 78
DMSRAO		
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DMSFSX		
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IAMGEN		
STRTAD ENTRY IN FDB IS NOT ALWAYS RESET	24.13.1 O+	Jan 78
IAMCRI		
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DSORT		
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DSORTD MAY RETURN A FATAL ERROR USING MULTIPLE KEY FILES	24.20.2 M+	Jan 78
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DSORTF		
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DSORTX		
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DIBOL-11/DECFORM V1

#Articles appeared in CTS-500 DIBOL Release Notes, July 1977 (DEC-11-LCDAA-A-D).

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DIBOL LPQUE RESTRICTION	26.5.15 R	Mar 78
PROBLEM WITH TERMINAL ECHO FOLLOWING DETACH	26.5.16 M	Mar 78
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PROBLEM WITH TERMINAL NUMBERS ABOVE 63	26.5.21 R	Jun 78
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PROBLEM WITH ISAM READS	26.5.25 M	Jul 78
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"HANG" DIBOL PROGRAMS WHEN LP GOES OFFLINE	26.5.27 O	Nov 78
PROBLEM FOLLOWING OPEN WITH ILLEGAL FILENAME	26.5.28 M	Nov 78
DECFORM		
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FOCOMP ERRORS DEALING WITH COMMAND LINE PROBLEMS, MEMORY MANAGEMENT ERRORS AND OTHER ASSORTED PROBLEMS	26.6.2 M#	Jul 77
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INTREG OPTION USED WITHOUT ANY BATCH TOTAL REGISTERS	26.6.5 R#	Jul 77
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CONDITIONAL GOTO	26.6.7 M+	Jan 78
PROGRAMMABLE AND FILE VALIDATION OPTION PROBLEMS	26.6.8 M+	Jan 78
MEMORY MANAGEMENT ERROR IN FOCOMP	26.6.9 M+	Jan 78
ADDITIONAL INFORMATION ON MATH OPTION	26.6.10 R+	Jan 78
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NOT A OR D ERROR MESSAGE CAUSED BY FOCOMP	26.6.12 M	May 78
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ISMUTL		
ISMUTL INDEXING PROBLEMS AND BASIC-PLUS COMPATIBILITY	26.7.1 M#	Jul 77
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CHANNEL IN USE ERROR IN REORG	26.7.3 M+	Jan 78
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LEGAL CHARACTERS IN ISAM RECORDS	26.7.5 R	May 78
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VIRTUAL ARRAY ELEMENTS MAY BE MISALIGNED	27.2.1 M*	Dec 77
POSSIBLE FATAL ERRORS ON "PRINT-USING" STATEMENTS	27.2.2 M*	Dec 77
ERRORS ON ACCESSING VARIABLES WITH DEBUGGER AND "TSK" OUTPUT	27.2.3 M*	Dec 77
LARGE TERMINAL WIDTHS PRODUCE FATAL ERRORS	27.2.4 M*	Dec 77
POST MORTEM DUMP OPTION ALWAYS ENABLED ON "TSK" OUTPUT	27.2.5 O*	Dec 77
NAME AS WITH SUBSCRIPTED VARIABLES CAUSES ERRORS	27.2.6 M+	Jan 78
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BASIC2 RUN-TIME SYSTEM PATCHES		
POSSIBLE UNIBUS TIMEOUT FATAL ERRORS ON STRING EQUATES	27.3.1 M*	Dec 77
POSSIBLE UNIBUS TIMEOUT FATAL ERRORS ON PRINT-USINGS	27.3.2 M*	Dec 77
CLOSING A WRITE LOCKED OR HUNG DEVICE RESULTS IN A LOOP	27.3.3 M*	Dec 77
CHAINING TO A BASIC-PLUS PROGRAM FROM BASIC-PLUS-2 MAY RESULT IN SCALE FACTOR INTERLOCK	27.3.4 M*	Dec 77
ERROR TRAPPING OUT OF STRING FUNCTION GIVES MEMORY MANAGEMENT VIOLATION	27.3.5 M*	Dec 77
LARGE TERMINAL WIDTHS PRODUCE FATAL ERRORS	27.3.6 M*	Dec 77
DEBUG MAY IGNORE BREAK IN USER FUNCTION	27.3.7 M*	Dec 77
AN ATTEMPT TO USE A SUBSCRIPT OUT OF RANGE IN DEBUG WILL GIVE MEMORY MANAGEMENT ERRORS	27.3.8 M*	Dec 77
UNQUOTED STRINGS OR "&" AT END OF DATA STATEMENTS CAUSE READ ERRORS	27.3.9 M*	Dec 77
DEVICE "TI:" NOT PROPERLY HANDLED	27.3.10 M*	Dec 77
ILLEGAL FILENAME MAY NOT GIVE ERROR	27.3.11 M*	Dec 77
POSSIBLE BAD DATA IF VIRTUAL ARRAY READ CAUSES ERROR	27.3.12 O	Jan 78
PRINT USING IGNORES TRAILING ASTERISK	27.3.13 M	Jan 78
PRINT USING RETURNS ERROR INDICATOR FOR NEGATIVE NUMBERS	27.3.14 M	Jan 78
AN OPEN OF THE TERMINAL IGNORES ACTUAL WIDTH	27.3.15 M	Jan 78
VAL FUNCTION IGNORES SCALE FACTOR	27.3.16 M	Jan 78
NUM$ WITH SCALING CAUSES MEMORY ERRORS	27.3.17 M	Jan 78
RND DOES NOT RETURN TRULY RANDOM NUMBERS	27.3.18 O	Jan 78
INTEGER EXPONENTIATE MAY GIVE OVERFLOW ERROR	27.3.19 O	Feb 78
USE OF MODE A% CLAUSE IN OPEN CHANGES VALUE OF A%	27.3.20 M	Feb 78
FILE STRING SCAN (SYS(-10)) REPORTS ERRORS INCORRECTLY	27.3.21 M	Feb 78
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ALLOWING 24 HOUR TIME OPTION	27.3.26 O	Mar 78
SCALED ARITHMETIC LOSES ACCURACY	27.3.27 M	Mar 78
CERTAIN UNTRAPPABLE ERRORS SHOULD NOT BE	27.3.28 M	Mar 78
SINGLE ALPHA CHARACTERS WRONGLY ACCEPTED AS NUMERIC	27.3.29 M	May 78
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NUM1$(SINGLE PRECISION) MAY GIVE STRANGE RESULTS	27.3.31 M	May 78
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XLATE FUNCTION DOES NOT WORK PROPERL`Y	27.3.33 M	Aug 78
RANDOMIZE DOES NOT WORK PROPERLY	27.3.34 M	Aug 78
THE THREAD MA1$ IS NOT IN THE RUN TIME SYSTEM	27.3.35 M	Aug 78
SIGN FUNCTION (SGN) NOT RETURNING CORRECT VALUES	27.3.36 M	Aug 78
BP2COM RUN-TIME SYSTEM PATCHES		
USE OF BP2COM RTS MAY GIVE TASK BUILDER ERRORS	27.4.1 M*	Dec 77
POSSIBLE UNIBUS TIMEOUT FATAL ERRORS ON STRING EQUATES	27.4.2 M*	Dec 77
ERROR TRAPPING OUT OF STRING FUNCTION GIVES MEMORY MANAGEMENT VIOLATION	27.4.3 M*	Dec 77
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Component	Sequence	Mon/Yr
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Component	Sequence	Mon/Yr
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SYSTEM ERROR ON PARAMETER RETURN	33.2.4 M	May 78
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Component	Sequence	Mon/Yr
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DEBUG LET STATEMENTS DO NOT WORK PROPERLY	38.3.3 M	Oct 78
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A NEGATIVE INDEX IN AN ON GOTO STATEMENT CAN CAUSE A PROGRAM CRASH	38.3.5 M	Nov 78
SGN FUNCTION DOES NOT WORK PROPERLY UNDER DOUBLE PRECISION	38.3.6 M	Nov 78
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NAME AS STATEMENT DOES NOT WORK PROPERLY, AND MAGTAPE (BACKSPACE) FUNCTION DOES NOT WORK PROPERLY	38.3.9 M	Nov 78
BP2COM RUN-TIME SYSTEM PATCHES		
SYSTEM SECURITY EXPOSURE WITH BASIC-PLUS-2 KEYBOARD MONITOR	38.4.1 M	Dec 78
A NEGATIVE INDEX IN AN ON GOTO STATEMENT CAN CAUSE A PROGRAM CRASH	38.4.2 M	Nov 78
A NULL STRING PASSED TO A SUBPROGRAM WILL NOT BE UPDATABLE	38.4.3 M	Nov 78

Component	Sequence	Mon/Yr
BASIC2 OBJECT LIBRARY PATCHES		
DEBUG LET STATEMENTS DO NOT WORK PROPERLY	38.5.1 M	Oct 78
BP2COM OBJECT LIBRARY PATCHES		
NAME AS STATEMENT DOES NOT WORK PROPERLY, AND MAGTAPE (BACKSPACE) FUNCTION DOES NOT WORK PROPERLY	38.6.1 M	Oct 78
UNLOCK STATEMENT DOES NOT WORK PROPERLY	38.6.2 M	Oct 78
DEBUG LET STATEMENTS DO NOT WORK PROPERLY	38.6.3 M	Oct 78
UNASSIGNED	38.6.4	XXX XX
A NEGATIVE INDEX IN AN ON GOTO STATEMENT CAN CAUSE A PROGRAM CRASH	38.6.5 M	Nov 78
SGN FUNCTION DOES NOT WORK PROPERLY UNDER DOUBLE PRECISION	38.6.6 M	Nov 78
A NULL STRING PASSED TO A SUBPROGRAM WILL NOT BE UPDATABLE	38.6.7 M	Nov 78
MODE 8 PROCESSING DOES NOT WORK PROPERLY	38.6.8 M	Nov 78
BASRMS OBJECT LIBRARY PATCHES		
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IMPROPER USE OF RUNJB	39.1.3 N**	Jun 78
DATA TYPE COMPATIBILITY	39.1.4 N**	Jun 78
DECFORM DATA ENTRY FOR PROGRAMS	39.1.5 N**	Jun 78
ZONED ASCII ARITHMETIC FOR BP2COM V1.50	39.1.6 O	Dec 78
ZONED ASCII ARITHMETIC FOR BASIC2 V1.50	39.1.7 O	Dec 78
CTSPIP		
INDIRECT COMMAND FILE SPECIFICATIONS	39.2.1 M	Jan 79
COBOL V3.1		
BUILD PROCEDURES		
DBUILD SUPERCESSION	39.3.1 N**	Jun 78
DICOMP SUPERCESSION	39.3.2 N**	JUN 78
DIBOL		
OPTIONAL PATCH TO EXPAND CALL/RETURN LIMIT (R6 STACK SPACE)	39.5.1 O**	Jun 78
DECFORM		
FOCOMP.MLB DECFORM LIBRARY	39.6.1 N**	Jun 78
COBOL-11 V3.1		
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digital

Software Product Description

PRODUCT NAME: NTR/CTS-500, Version 1.0 **SPD 10.63.0**

DESCRIPTION:

The NTR/CTS-500 emulator is a software package that runs under the CTS-500 or RSTS/E operating system to permit batch input to and output from a UNIVAC 1100 series computer (the host). Start-up, shut-down, and host queue interrogation of the emulator can be controlled from any one terminal (the control terminal) connected to the CTS-500 or RSTS/E operating system.

The emulator communicates, over a switched or non-switched 2-wire or 4-wire line, at speeds up to 9600 baud, with the host computer running NTR level 2.R2 software under the EXEC-8 level 32.R2 operating system.

Features:

- Batch input can be from any input device supported by the CTS-500 or RSTS/E operating system.
- Batch output can be sent to any output device supported by the CTS-500 or RSTS/E operating system.
- Batch output to line-printers is spooled using the CTS-500 or RSTS/E system spooling mechanism.
- Batch input can be submitted for transmission whether or not the connection to the host is active.
- Batch input can be stored on disk by the emulator for later transmission to the host, enabling improved line usage.
- Batch input from punched cards can be in DEC-026, DEC-029, FIELDATA or EBCDIC code.

The emulator control terminal can be used to:

- start and stop the emulator
- list the host queues (to the extent supported by the host operating system).
- select and change the output device for data received from the host
- start and stop transmission of individual input streams to the host

From any terminal, the user can:

- submit files for transmission to the host
- interrogate the queue of files to be sent to the host by the emulator

MINIMUM HARDWARE REQUIRED:

Any valid CTS-500 or RSTS/E configuration with:

- DUP11-DA, synchronous communications interface
- 16K bytes of memory to accomodate the emulator 32K bytes of memory (minimum user job space)

If BASIC-PLUS-2 for CTS-500 is not installed an additional 8K bytes of user job space for the BASIC-PLUS-2 run time systems.

OPTIONAL HARDWARE:

None

PREREQUISITE SOFTWARE:

One of the following:

- CTS-500, Version 4, Commercial Transaction System
- RSTS/E, Version 6C, Resource Sharing Time Sharing System Extended

OPTIONAL SOFTWARE:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

A (Europe only) C (Outside of Europe) — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

UPDATE POLICY (Europe only):

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer without additional charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

CUSTOMER RESPONSIBILITIES (Europe only):

Before installation of the software, the customer must:

- Obtain, install and demonstrate operational any modems and other equipment and facilities necessary to interface to DIGITAL's communication equipment.
- Previously have installed all hardware, including terminals, to be used on the system
- Make available to DIGITAL personnel all hardware, including communication facilities and terminals, that are to be used during installation, for a reasonable period of time as mutually agreed upon by DIGITAL and the customer until acceptance criteria are satisfied.

During installation of the software, the customer must:

- Provide access privileges and machine time on the UNIVAC 1100 series computer system interface.
- Provide appropriate documentation specifications for the UNIVAC communication hardware and software and access to UNIVAC operators and programming staff necessary for installation of the emulator software.

During on-site remedial support, the customer must provide the standard hardware, software, communication facilities and terminals necessary for the efficient diagnosing and debugging of the reported problem.

ORDERING INFORMATION:

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The following key (D, E, Q, T, V, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QPD05-AD = binaries on 9-track magnetic tape.

D = 9-track Magnetic Tape
E = RK05 Disk Cartridge
Q = RL01 Disk Cartridge
T = RK06 Disk Cartridge
V = RK07 Disk Cartridge
Z = No hardware dependency

Standard Options

QPD05 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QPD05 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QPD05 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Source/Listing Options

QPD05 -E— All sources (media: D)

ADDITIONAL SERVICES:

None

ADDENDUM
SOFTWARE SUPPORT CATEGORIES

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

CATEGORY A

1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

CATEGORY B

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

CATEGORY C

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.

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Software Product Description

PRODUCT NAME: DX/RSTS, Version 3.0, WPS-8 to Host Software Utility **SPD 10.95.1**

DESCRIPTION:

DX/RSTS is a software package that executes on a PDP-11 RSTS/E timesharing system. It enables a WPS-8 Word Processing System running WPS-8, WPS-8/78, WPS-8/FTS or WPS-8/MTS software to communicate with the RSTS/E host over an asynchronous terminal interface. The WPS-8 system appears to the host to be a normal terminal. Communication between the WPS-8 system and the RSTS/E system uses the DX error-correcting message protocol. DX/RSTS thus effectively enables distributed stand-alone WPS-8 systems and the host RSTS/E timesharing system to be linked together for better system utilization and data sharing. The DX/RSTS package includes utility programs that convert RSTS/E files stored in word processing format to RSTS/E files stored in ASCII format and vice versa.

DX/RSTS enables the WPS-8 system user to:

- Store word processing format files on a RSTS/E system and later retrieve them. The ability to use RSTS/E disk structures enables the WPS-8 system user to access a large number of documents otherwise filling several document floppies, including large documents filling an entire floppy.
- Use the high-speed PDP-11 line printer connected to the RSTS/E system to print rough drafts and other documents which do not require letter quality printing. This increases system throughput and increases the availability of the WPS-8 letter quality printer for printing final drafts. Conversely, the RSTS/E system user can output text files converted from the RSTS/E file system on the WPS-8 letter quality printer.
- Create RSTS/E source language and data files offline from the RSTS/E system using the WPS-8 editor, and then transmit the files to the RSTS/E system for processing.

MINIMUM HARDWARE REQUIRED:

The following system configurations are required:

- Any valid RSTS/E operating system configuration that has at least PDP 11/34 with the EIS option, and a available local or remote serial asynchronous terminal line supported by the operating system. DX/RSTS requires 56K bytes of memory.
- One valid WPS-8, WPS-8/FTS or WPS-8/MTS system configuration with Communications Option or one WS78-CA.

Each additional WPS-8 system connected to the RSTS/E system requires its own line and its own copy of the DX/RSTS communications program.

OPTIONAL HARDWARE:

None

PREREQUISITE SOFTWARE:

RSTS/E Version 6C or later and one of the following:

- WPS-8, Version 3.0 or later
- WPS-8/78, Version 3.0 or later
- WPS-8/FTS, Version 3.0 or later
- WPS-8/MTS, Version 3.0 or later

OPTIONAL SOFTWARE:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

C — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

UPDATE POLICY:

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

ORDERING INFORMATION:

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

The following key (D, E, T) represents the distribution

media for the product and must be specified at the end of the order number, e.g., QJ703-CD = binaries on 9-track magnetic tape.

D = 9-track Magnetic Tape
E = RK05 Disk Cartridge
T = RK06 Disk Cartridge

Standard Options

QJ703 -C— Single-use license, binaries, documentation, no support services (media: D, E, T)

ADDITIONAL SERVICES:

None

ADDENDUM
SOFTWARE SUPPORT CATEGORIES

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

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CATEGORY B

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

CATEGORY C

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

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Software Product Description

PRODUCT NAME: FORTRAN IV/RSTS/E, Version 2.1 **SPD 12.41.8**

DESCRIPTION:

FORTRAN IV is an extended FORTRAN implementation based on American National Standard (ANSI) FORTRAN, X3.9 - 1966. It operates under the RSTS/E operating system. The PDP-11 FORTRAN IV language includes the following extensions to the ANSI standard:

- General expressions allowed in all meaningful contexts
- Mixed-mode arithmetic
- BYTE data type for character manipulation
- ENCODE, DECODE statements
- PRINT, TYPE, ACCEPT input/output statements
- Direct-access unformatted input/output DEFINE FILE statement
- Comments allowed at end of each source line
- PROGRAM statement
- OPEN and CLOSE file access control statements
- List-directed input/output

The PDP-11 FORTRAN IV compiler is a fast, one-pass compiler. Compiler options allow program size (threaded code) versus execution speed (in-line code) tradeoffs. FORTRAN IV compiler optimizations include:

- Common subexpression elimination
- "Peephole" local code tailoring
- Array vectoring
- Optional in-line code generation for integer and logical operations

MACRO-11 assembly language subroutines may be called from FORTRAN IV programs.

Object Time System:

FORTRAN IV includes a set of object modules, called the Object Time System (OTS), that are selectively linked with compiler-produced object modules to produce an executable program.

The RSTS/E system provides special features for FORTRAN IV. FORTRAN programs may be developed under RSTS/E and output in absolute binary format for execution on a stand-alone PDP-11 system with minimal peripherals, or for loading into ROM or PROM memory.

Although MACRO-11 subroutines may be invoked from FORTRAN IV programs, no facility is provided for monitor communication or input/output from within these MACRO subprograms.

MINIMUM HARDWARE REQUIRED:

Any valid RSTS/E configuration with at least 128K bytes of memory.

OPTIONAL HARDWARE:

FORTRAN IV supports all devices supported by the operating system.

FORTRAN IV generated code can be selected to support the following arithmetic hardware options:

KE11-A Extended Arithmetic Element
KE11-B Extended Arithmetic Element
KE11-E Extended Instruction Set
KE11-F Floating Instruction Set
KEV11 Extended Arithmetic Chip

The FORTRAN IV OTS additionally supports the FP11 floating point processor.

PREREQUISITE SOFTWARE:

RSTS/E operating system, Version 6C or later

OPTIONAL SOFTWARE:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

B — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

UPDATE POLICY:

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

ORDERING INFORMATION:

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software

and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

Standard options with no support services are only available after the purchase of one supported license. When a software license is ordered without support services, the category of support applicable to such software is Category C.

A single-use license only option is a license to copy the software previously obtained under license, and use such software in accordance with DIGITAL's Standard Terms and Conditions of Sale. The category of support applicable to such copied software is Category C.

The following key (D, E, F, Q, T, V, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QR435-AD = binaries on 9-track magnetic tape.

D = 9-track Magnetic Tape
E = RK05 Disk Cartridge
F = 7-track Magnetic Tape
Q = RL01 Disk Cartridge
T = RK06 Disk Cartridge
V = RK07 Disk Cartridge
Z = No hardware dependency

Standard Options

QR435 -A— Single-use license, binaries, documentation, support services (media: D, E, F, Q, T, V)

QR435 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, Q, T, V)

QR435 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Update Options

Users of FORTRAN IV/RSTS/E, Version 1C or 2, whose specified Support Category warranty has expired may order the following software update at the then current charge for such update, for use under the existing license. Except where the medium is designated as Z, the update is distributed in source or binary form on the appropriate medium. A software update where the medium is designated as Z grants the user of FORTRAN IV/RSTS/E, Version 1C or 2, the right to copy the previously ordered QR435-H or QR435-W software update for use on an additional single CPU for which a FORTRAN IV/RSTS/E license has been obtained. No installation or other services are included unless specifically stated otherwise.

QR435 -H— Binaries, documentation (media: D, E, F, Q, T, V)

QR435 -H— Right to copy for single-use (under existing license), no binaries, no documentation, no support services (media: Z)

Users of FORTRAN IV/RSTS/E, Version 1C or 2, whose specified Support Category warranty has not expired may order under license the following software update for the then current media charge. The update is distributed in source or binary form on the appropriate medium and includes no installation or other services unless specifically stated otherwise.

QR435 -W— Binaries, documentation (media: D, E, F, Q, T, V)

Miscellaneous Options

QR435 -G— Pre-delivery kit (media: Z)

ADDITIONAL SERVICES:

None

ADDENDUM
SOFTWARE SUPPORT CATEGORIES

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CATEGORY B

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

CATEGORY C

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

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Software Product Description

PRODUCT NAME: DATATRIEVE-11, Version 1.1 **SPD 12.48.2**

DESCRIPTION:

DATATRIEVE-11 is an interactive query, report, and data maintenance system designed for unsophisticated computer users. The DATATRIEVE-11 package includes RMS-11K software and is available on the RSTS/E, RSX-11M, and IAS operating systems. DATATRIEVE-11 utilizes the RMS-11K record management services to access data contained in files of sequential, indexed, or relative organization. DATATRIEVE-11 provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming overhead.

Record format and domain (file) definitions entered in DATATRIEVE-11 are automatically stored in a Data Dictionary shared by DATATRIEVE-11 users. The Data Dictionary can also be used to save frequently used sequences of commands as procedures. Commands are provided to list the contents of the Data Dictionary, to delete entries, and to control access to individual entries in the Data Dictionary. A Dictionary Compression utility is provided to compress the Data Dictionary file.

DATATRIEVE-11 uses a simple English-like command language for data retrieval, modification, and display. Prompting is automatic for both command and data entry. The major commands are as follows:

- The HELP command provides a summary of each DATATRIEVE-11 commmand.
- The READY command identifies a domain for processing and controls the access mode to the appropriate file.
- The FIND command establishes a collection (subset) of records contained in either a domain or a previously established collection based on a Boolean expression.
- The SORT command re-orders a collection of records in either the ascending or descending sequence of the contents of one or more fields in the records.
- The PRINT command prints one or more fields of one or more records. Output can optionally be directed to a line printer or disk file. Format control can be specified. A column header is generated automatically.
- The SELECT command identifies a single record in a collection for subsequent individual processing.
- The MODIFY command alters the values of one or more fields for either the selected record or all records in a collection. Replacement values are prompted for by name.
- The STORE command creates a new record. The value for each field contained in the record is prompted for by name.
- The ERASE command removes one or more records from the RMS-11 file corresponding to the appropriate domain.
- The FOR command executes a subsequent command once for each record in a record collection, providing a simple looping facility.
- The EDIT command invokes an editor which inserts, replaces, or deletes text from procedures defined in the Data Dictionary.

In addition to the simple data manipulation commands, a number of more complex commands are available for the advanced user. These commands, such as REPEAT, BEGIN-END, and IF-THEN-ELSE, may be used to combine two or more DATATRIEVE-11 commands into a single compound command. These, in turn, may be stored in the Data Dictionary as procedures for invocation by less experienced users.

DATATRIEVE-11 provides a full set of arithmetic operators (addition, subtraction, multiplication, division, and negation), a set of statistical operators (total, average, maximum, minimum, and count), and provides automatic conversion between data types used in the FORTRAN, COBOL, DIBOL, and BASIC-PLUS-2 languages.

The DATATRIEVE-11 report writer provides easy-to-use commands to control the following report functions:

- Report name, date, and page numbering
- Page width and length specification
- Detail line specification
- Multiple control break specification with automatic totaling at any level
- Multiple report sections

A DATATRIEVE-11 report command can be freely intermixed with other DATATRIEVE-11 commands.

MINIMUM HARDWARE REQUIRED:

Any valid RSTS/E, RSX-11M, or IAS operating system configuration that includes:

- 64K-byte user memory
- Extended Instruction Set

OPTIONAL HARDWARE:

Supports any mass storage, unit record or terminal device supported by the prerequisite software.

PREREQUISITE SOFTWARE:

Any of the following operating systems:

RSTS/E, Version 6C or later
RSX-11M, Version 3.1 or later
IAS, Version 2.0 or later

OPTIONAL SOFTWARE:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

A — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

UPDATE POLICY:

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

ORDERING INFORMATION:

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The following key (D, E, Q, T, V, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QP300-AD = DATATRIEVE-11/RSTS/E binaries on 9-track magnetic tape.

D = 9-track Magnetic Tape
E = RK05 Disk Cartridge
Q = RL01 Disk Cartridge
T = RK06 Disk Cartridge
V = RK07 Disk Cartridge
Z = No hardware dependency

Standard Options for DATATRIEVE-11/RSTS/E

QP300 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP300 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP300 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Standard Options for DATATRIEVE-11/RSX-11M

QP301 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP301 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP301 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Standard Options for DATATRIEVE-11/IAS

QP302 -A— Single-use license, binaries, documentation, support services (media: D, E, T)

QP302 -C— Single-use license, binaries, documentation, no support services (media: D, E, T)

QP302 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Upgrade Options

The following option is available as an upgrade kit from RMS-11K for use on the same single CPU on which RMS-11K is licensed. The license previously granted for RMS-11K shall be extended to cover this upgrade.

For DATATRIEVE-11/RSTS/E

QP310 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP310 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP310 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

For DATATRIEVE-11/RSX-11M

QP311 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP311 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP311 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

For DATATRIEVE-11/IAS

QP312 -A— Single-use license, binaries, documentation, support services (media: D, E, T)

QP312 -C— Single-use license, binaries, documentation, no support services (media: D, E, T)

QP312 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Update Options

Users of DATATRIEVE-11 whose specified Support Category warranty has expired may order under license the following software update at the then current charge for such update. The update is distributed in source or binary form on the appropriate medium and includes no installation or other services unless specifically stated otherwise.

For RSTS/E Systems:

QP300 -H— Binaries, documentation (media: D, E, Q, T, V)

QP300 -H— Right to copy for single use (under existing license), no binaries, no documentation, no support services (media: Z)

For RSX-11M Systems:

QP301 -H— Binaries, documentation (media: D, E, Q, T, V)

QP301 -H— Right to copy for single-use (under existing license), no binaries, no documentation, no support services (media: Z)

For IAS systems:

QP302 -H— Binaries, documentation (media: D, E, T)

QP302 -H— Right to copy for single use (under existing license), no binaries, no documentation, no support services (media: Z)

Users of DATATREIVE-11 whose specified Support Category warranty has not expired may order under license the following software update for the then current media charge. The update is distributed in source or binary form on the appropriate medium and includes no installation or other services unless specifically stated otherwise.

For RSTS/E Systems:

QP300 -W— Binaries, documentation (media: D, E, Q, T, V)

For RSX-11M Systems:

QP301 -W— Binaries, documentation (media: D, E, Q, T, V)

For IAS Systems:

QP302 -W— Binaries, documentation (media: D, E, T)

Miscellaneous Options:

For RSTS/E Systems:

QP300 -G— Pre-delivery kit (media: Z)

For RSX-11M Systems:

QP301 -G— Pre-delivery kit (media: Z)

For IAS Systems:

QP302 -G— Pre-delivery kit (media: Z)

ADDITIONAL SERVICES:

None

ADDENDUM
SOFTWARE SUPPORT CATEGORIES

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1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

CATEGORY B

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

CATEGORY C

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.

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Software Product Description

PRODUCT NAME: RPG II for RMS-11K File Systems, Version 8 **SPD 13.3.2**

DESCRIPTION:

RPG II is a programming language oriented for use in business data processing operations involving data file manipulation and report generation. RPG II, Version 8, is intended for use under RSTS/E, RSX-11M, or IAS operating system implementations which include RMS-11 record management services and the RMS-11K multikey access option. User application programs are developed within defined specifications that indicate file description, input, output, calculation, and control parameters. The RPG II compiler translates a set of program specifications into machine language instructions that are then linked together with RPG II object time library routines for execution in conjunction with the appropriate PDP-11 operating system. A set of utility programs is also provided to assist users in converting existing RPG II programs and related data files previously developed on other vendor systems into PDP-11 system operation environments.

An RPG II program is defined by the user specification of the exact, detailed description of input data, output formats, and desired processing steps. The following RPG II program specification formats are used:

RPG II Control and File Description Specifications

- Header Specification furnishes control information including listing, debug, collating sequence, and form positioning parameters.
- File Description Specification identifies data file parameters including file names, record size, media type, organization, and access mode.

RPG II Extension and Line Counter Specifications

- Extension Specifications provide detailed descriptions of arrays, record address files, tables, and data formats.
- Line Counter Specifications define the number of available print lines and identify the overflow line.

RPG II Input Specification

- Input Specifications identify record types and indicate field locations, names, formats, control levels, and other information related to input data files.

RPG II Calculation Specification

- Calculation Specifications define factors, relationships, control indicators, branching, and other options related to operations performed within the user program.

RPG II Output Format Specification

- Output Specifications describe output file and print formats including fields, edit operations, forms spacing, and constant information.

RPG II, Version 8, incorporates the following features:

- Functional interface to the RMS-11 and RMS-11K record management services and their sequential, relative, and indexed file organizations.
- Language implementation that includes extended features of RPG II such as table and array handling, multiple input file processing, ability to perform input/output, and operations during calculation cycle. DEBUG, CHAIN, EXCPT, LOOKAHEAD, READ, DSPLY, FORCE, MOVEA, and SETLL operations are supported.
- Interactive RPG II source statement editor for RPG II program development or modification activity through an on-line terminal.
- Conversion utilities for translating program and data files from EBCDIC, packed decimal, and binary form into appropriate PDP-11 ASCII data and file formats.
- Ability to access and maintain data files with RPG II programs in a batch or indirect command operation mode. The same data files can be accessed in an interactive terminal operation mode, with programs written in other higher-level languages that use the RMS-11 and RMS-11K file organizations.

The following components constitute the RPG II Software Package:

- RPG II compiler and object time system
- Utility programs for converting programs and data files from IBM System/3 to CTS-500 RPG II:
  1. File conversion utility which reads and translates a magnetic tape with source program files and data files written by an IBM System/3.
  2. RPG II source conversion utility which reads a source program, scans for specified incompatible statements, and converts them if possible or flags them for conversion by the programmer.
  3. Interactive source statement editor.

MINIMUM HARDWARE REQUIRED:

Any valid RSTS/E, IAS, or RSX-11M operating system configuration with at least 128K bytes (64K words) of memory and sufficient disk space to provide 56K bytes (28K words) of job swapping or non-resident task storage area. Additional disk space is required for storage of task images of user developed programs.

OPTIONAL HARDWARE:

RPG II programs and object time systems may access any mass storage or terminal device supported by the prerequisite software and operating environment. Normally, access to unit record equipment such as punched card readers and line printers is provided indirectly through utility programs.

PREREQUISITE SOFTWARE:

One of the following software product combinations is required:

- CTS-500 Level 3 Version 3 or later
- RSTS/E and RMS-11K
- IAS and RMS-11K
- RSX-11M and RMS-11K

OPTIONAL SOFTWARE:

SORT-11, Version 2

TRAINING CREDITS:

None

SUPPORT CATEGORY:

A — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

UPDATE POLICY:

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

ORDERING INFORMATION:

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

Standard options with no support services are only available after the purchase of one supported license. When a software license is ordered without support services, the category of support applicable to such software is Category C.

A single-use license only option is a license to copy the software previously obtained under license, and use such software in accordance with DIGITAL's Standard Terms and Conditions of Sale. The category of support applicable to such copied software is Category C.

The following key (D, E, Q, T, V, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QP552-AD = binaries on 9-track magnetic tape.

D = 9-track Magnetic Tape
E = RK05 Disk Cartridge
Q = RL01 Disk Cartridge
T = RK06 Disk Cartridge
V = RK07 Disk Cartridge
Z = No hardware dependency

Standard Options

For CTS-500 or RSTS/E Systems:

QP552 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP552 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP552 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

For IAS Systems:

QP553 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP553 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP553 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

For RSX-11M Systems:

QP554 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP554 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP554 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Upgrade Options

The following option is available as an upgrade kit from RPG II for CTS-500 (RSTS/E, Version 7.06) for use on the same single CPU on which RPG II for CTS-500 (RSTS/E, Version 7.06) is licensed. The license previously granted for RPG II for CTS-500 (RSTS/E, Version 7.06) shall be extended to cover this upgrade.

QP555 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QP555 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

QP555 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

ADDITIONAL SERVICES:

None

ADDENDUM
SOFTWARE SUPPORT CATEGORIES

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

CATEGORY A

1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
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CATEGORY B

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CATEGORY C

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DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.

DECUS SPECIAL INTEREST GROUPS

A DECUS Special Interest Group (SIG) is an activity whereby members of the DIGITAL Equipment Computer Users Society who share common interests in a particular field, join together to promote the interchange of information. Specialization may be in application areas such as education or industry, specific software systems such as OS/8 and RSX-11, or a specific mainframe such as the DECsystem-10/20.

SIG members derive numerous benefits from communicating with others who share specialized interests and who may wish to share their experiences. SIG s sponsor business meetings, tutorials, and workshops at the various chapter symposia which fulfill the two-fold purpose of fostering communication among users and between users and DIGITAL. Channeled communication provides DIGITAL and the users with insight into the direction of future developments. SIG s provide direct feedback to DIGITAL's in-house activities and have thereby made substantial contributions to OS/8, RSX-11, RSTS and TOPS-10.

User submitted articles, minutes of local meetings, and letters comprise the major portion of the individual SIG newsletters. Suggestions, hints, bug fixes, program plans, or questions of a non-commercial nature are suitable material for SIG newsletters.

SIG members are encouraged to make presentations at the SIG sessions held during DECUS Symposia.

The semi-annual U.S. Symposia sessions are organized by special interest areas. Submissions received from the user community are reviewed by symposia committee members from the special interest groups for appropriate placement on the agenda.

Special Interest Group participation in the review of programs submitted to the DECUS Program Library provides an opportunity to improve the quality and utility of programs available to you and to fellow users.

DIGITAL standards are issued to DECUS members for review and on the theory and philosophy of the standards. DECUS is a voting member of ANSI X3. Users are encouraged to register their areas of expertise with DECUS and assist with reviewing standards. SIG s often play a role in this process.

Below is a list of U.S. based Special Interest Groups within DECUS.

If you would like information regarding membership in any of the Special Interest Groups, contact DECUS U.S. Chapter, 129 Parker Street, PK3-1/E55, Maynard, Massachusetts 01754 or one of the other DECUS Chapter offices in Kanata, Sidney or Geneva.

NETSIG—Networks Special Interest Group
RSTS SIG—RSTS and RSTS/E Special Interest Group
SIGIG—Special Interest Group on Interactive Graphics
ESIG—Engineering Applications Special Interest Group
SIG-18—18-Bit Users Special Interest Group
12-Bit SIG—12-Bit User Special Interest Group
RSX-11/IAS SIG
RT-11 SIG
EDUSIG—Educational Users Special Interest Group
DEBUG—Digital Equipment Business Users Group
MUSIG—Mumps Special Interest Group
PASCAL SIG
DBMS SIG
TECO SIG
LSI-11 SIG
FOCAL SIG
STANDARDS SIG

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

RSTS-11 Special Interest Group

A Special Interest Group (SIG), as part of DECUS activities, has been formed to serve users of RSTS-11.

The organization of the SIG consists of a SIG Chairman, who will also act as the editor of any forthcoming newsletter, along with a DEC liaison and a SIG Coordinator. The DECUS office will handle the mailing list and circulation of the SIG newsletter. Submissions to the newsletter and other communications can be sent to the following address:

RSTS-11 Special Interest Group
c/o DECUS Office
One Iron Way - MR2-3/E55
Marlboro, MA 01752

SIG's activities encompass the following:

1. Preparation of a SIG newsletter (user submissions are strongly encouraged).
2. Exchange of user written programs. This exchange could include common interest BASIC-PLUS programs such as games, system accounting programs, and sort programs.
3. Establishment of communications with the DECUS staff to obtain for SIG members early information on RSTS-11 related additions to the DECUS Library. These communications will also serve to provide prompt testing of such submissions.
4. Establishment of user input to appropriate groups within DEC, so that they will receive user feedback on any additions or needed changes to RSTS-11. Additionally, respective SIG members may receive early warning from DEC about RSTS-11 changes.
5. Establishment of SIG maintained files of RSTS-11 errors and error solutions, where they exist.
6. Establishment of RSTS-11 "Welcome Wagon" type service to aid new users during system start-up.

If you wish to become a member of the RSTS-11 SIG, please fill out the form below and return it to the DECUS Office. (Please type or print.)

Are you a DECUS Member? _____ DECUS Membership Number _____

NAME _____

AFFILIATION _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

TELEPHONE NUMBER _____

Are you registered with DEC as an RSTS-11 user? _____

Version Number: _____

SOFTWARE PROBLEMS OR ENHANCEMENTS

Questions, problems, and enhancements to DIGITAL software should be reported on a Software Performance Report (SPR) form and mailed to the SPR Center at one of the following DIGITAL Offices: (SPR forms are available from the SPR Center).

AREAS COVERED	SPR CENTER
United States, remainder of Far East, Middle East, Africa Latin America	Administrative Services Group, SWS P.O.Box F Maynard MA 01754
Canada	Digital Equipment Canada P.O.Box 11500 Kanata Canada K2H 8K8 Ontario
United Kingdom	Digital Equipment Corp., LTD Fountain House Butts Centre RG1 7QN Reading England
Australia-Melbourne	Digital Equipment Aust. Pty., LTD 60 Park Street South Melbourne Victoria Australia 3205
Australia-Sydney	Digital Equipment Aust. Pty., LTD 123 125 Willoughby Road P.O.Box 491 Crows Nest NSW Australia 2065
Brazil	Digital Equipment Comercio Ind Rua Batatais 429 Esq AL Campin 01423 Jardim Paulista Sao Paulo 0100 Brazil
Caribbean	De Latin America P.O.Box 11038 Fernando Juncos Sta. Santurce PR 00910
France	Digital Equipment Corp., LTD. Centre Silic Cidex L225 18 Rue Saarinen 94533 Rungis France

AREAS COVERED	SPR CENTER
Italy	Digital Equipment SPA Viale Fulvio Testi 117 20092 Cinisillo Balsamo Italy
Japan	Digital Equipment Corp., INTL 3rd Floor Kowa Building 8-7 Sanban Cho Chiyoda Ku Tokyo 102 Japan
New Zealand	Digital Equipment Corp., LTD Challenge House 3 Wolfe Street P.O.Box 2471 Auckland New Zealand 10010
Belgium, Holland	Digital Equipment BV Kaap Horndreef 38 3563 AV Utrecht Netherlands
Denmark, Finland, Norway, Sweden	Digital Equipment Corp., AB Englundavaegen 73 TR 171 41 Solna Sweden
Switzerland, Spain, Greece, Romania, Portugal, Bulgaria Yugoslavia	Digital Equipment Corp., SA 20 Quai Ernest Ansermet Boite Postale 23 CH 1211 Geneva Switzerland
Austria, Poland Hungary, Rumania East Germany, West Germany, Russia, Czechslovakia	Digital Equipment Corp., GMBH Wallsteinplatz 2 8000 Munchen 40 Germany 8000
Israel	DECSYS Computers, LTD 7 Habakuk Street Il-Tel Aviv 63505 Israel

DIGITAL EQUIPMENT CORPORATION, Corporate Headquarters: Maynard, Massachusetts 01754, Telephone: (617)897-5111—SALES AND SERVICE OFFICES: UNITED STATES—ALABAMA, Huntsville • ARIZONA, Phoenix and Tucson • CALIFORNIA, El Segundo, Los Angeles, Oakland, Ridgecrest, San Diego, San Francisco (Mountain View), Santa Ana, Santa Clara, Stanford, Sunnyvale and Woodland Hills • COLORADO, Englewood • CONNECTICUT, Fairfield and Meriden • DISTRICT OF COLUMBIA, Washington (Lanham, MD) • FLORIDA, Ft. Lauderdale and Orlando • GEORGIA, Atlanta • HAWAII, Honolulu • ILLINOIS, Chicago (Rolling Meadows) • INDIANA, Indianapolis • IOWA, Bettendorf • KENTUCKY, Louisville • LOUISIANA, New Orleans (Metairie) • MARYLAND, Odenton • MASSACHUSETTS, Marlborough, Waltham and Westfield • MICHIGAN, Detroit (Farmington Hills) • MINNESOTA, Minneapolis • MISSOURI, Kansas City (Independence) and St. Louis • NEW HAMPSHIRE, Manchester • NEW JERSEY, Cherry Hill, Fairfield, Metuchen and Princeton • NEW MEXICO, Albuquerque • NEW YORK, Albany, Buffalo (Cheektowaga), Long Island (Huntington Station), Manhattan, Rochester and Syracuse • NORTH CAROLINA, Durham/Chapel Hill • OHIO, Cleveland (Euclid), Columbus and Dayton • OKLAHOMA, Tulsa • OREGON, Eugene and Portland • PENNSYLVANIA, Allentown, Philadelphia (Bluebell) and Pittsburgh • SOUTH CAROLINA, Columbia • TENNESSEE, Knoxville and Nashville • TEXAS, Austin, Dallas and Houston • UTAH, Salt Lake City • VIRGINIA, Richmond • WASHINGTON, Bellevue • WISCONSIN, Milwaukee (Brookfield) • INTERNATIONAL—ARGENTINA, Buenos Aires • AUSTRALIA, Adelaide, Brisbane, Canberra, Melbourne, Perth and Sydney • AUSTRIA, Vienna • BELGIUM, Brussels • BOLIVIA, La Paz • BRAZIL, Rio de Janeiro and Sao Paulo • CANADA, Calgary, Edmonton, Halifax, London, Montreal, Ottawa, Toronto, Vancouver and Winnipeg • CHILE, Santiago • DENMARK, Copenhagen • FINLAND, Helsinki • FRANCE, Lyon, Grenoble and Paris • GERMAN FEDERAL REPUBLIC, Cologne, Frankfurt, Hamburg, Hannover, Munich, Nuremburg, Stuttgart and West Berlin • HONG KONG • INDIA, Bombay • INDONESIA, Djakarta • IRELAND, Dublin • ITALY, Milan, Rome and Turin • IRAN, Tehran • JAPAN, Osaka and Tokyo • MALAYSIA, Kuala Lumpur • MEXICO, Mexico City • NETHERLANDS, Utrecht • NEW ZEALAND, Auckland and Christchurch • NORWAY, Oslo • PUERTO RICO, Santurce • SINGAPORE • SPAIN, Madrid • SWEDEN, Gothenburg and Stockholm • SWITZERLAND, Geneva and Zurich • UNITED KINGDOM, Birmingham, Bristol, Epsom, Edinburgh, Leeds, Leicester, London, Manchester and Reading • VENEZUELA, Caracas •